



Nitrogen Management System

NCase Dual Action contains an active ingredient that successfully reduces the volatilization and leaching of nitrogen. NCase Dual Action protects urea nitrogen in both the liquid and dry granular fertilizer form by slowing down conversion to ammonia, allowing time for adequate moisture to move it into the soil. Profitable corn farming and environmental stewardship requires proper nutrient planning and use of a proven nitrogen stabilizer like NCase Dual Action.

RECOMMENDED CROPS

Row crops

FEATURES & BENEFITS

- **Slow the hydrolysis of urea and control volatilization** preventing ammonia (NH₃) loss while the urea is on the soil surface or less than two inches deep in the soil
- **Proven** to significantly reduce urea nitrogen loss due to volatilization by inhibiting urease enzyme function
- **Ease of use and low odor formulation.** Approved for use with UAN and liquid manure
- **Dual Action Protection**
 - Up to three weeks of above ground protection from volatilization
 - Reduces nitrogen loss below ground up to 47%
- **Increases nitrogen efficiency,** availability and uptake
- **Formulated to help** build soil biological activity
- **Non-toxic** with no detrimental effects on soil bacteria and non-corrosive to equipment

DIRECTIONS FOR USE

Recommended for surface, shallow-placed, shallow banded or shallow-incorporated (less than two inches) application of urea-containing fertilizers, including pre-plant, pre-emergence, sidedress, topdress or other post-planting applications.

Use Rate:

UAN Solutions (28-32%): 1.5 quarts per ton (2,000 lbs.) of UAN spray solution.

Liquid Manure: 13.5-18 oz per acre

Other Considerations: Fill spray tanks halfway with UAN and add NCase Dual Action directly to the UAN solution and agitate. Allow agitation to continue while adding the remainder of UAN solution until thoroughly mixed into the uniform solution. Most agricultural chemicals compatible with UAN solutions are compatible with NCase Dual Action. However, compatibility tests prior to use are recommended.

Storage:

Avoid freezing. Store at temperatures between 0°F and 100°F) and avoid contact with water.

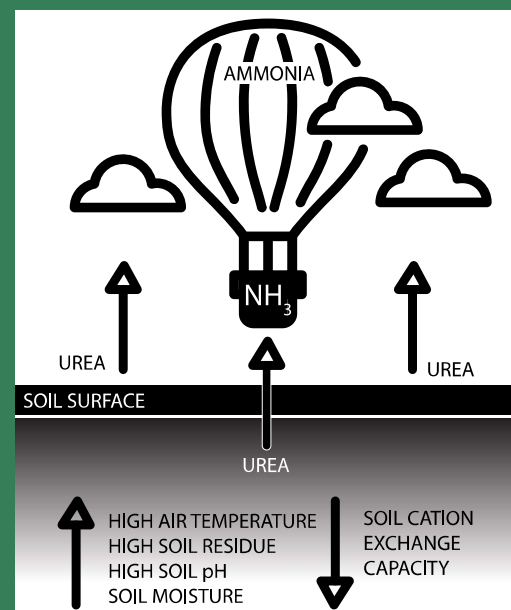
Packaging:

- 2x2.5 gallon jugs
- 250-gallon totes

ACTIVE INGREDIENTS

NBPT (N-(n-butyl)-thiophosphoric triamide) Solution (CAS No. 94317-64-3).....	20.0%
Propylene Glycol, 1-methyl-2-pyrrolidone and copolymer surfactant.....	80.0%
Total	100.0%

Also contains Non-Plant Food Ingredients:
Carboxylic and Organic Acids



Risk Factors NH₃ Volatilization

Y-Drop UAN
application 56
days after
planting.



Zone Work Totals

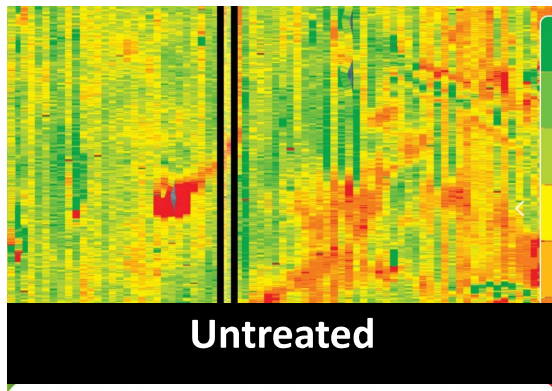
Area	Yield	Moisture
2.1 ac	179.3 bu/ac	15.9 %



Zone Work Totals

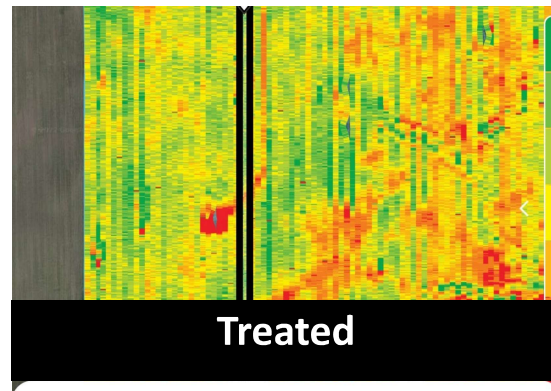
Area	Yield	Moisture
2.3 ac	184.7 bu/ac	16.2 %

Field Average
+ 5.2 Bu/ac



Zone Work Totals

Area	Yield	Moisture
2.9 ac	207.9 bu/ac	14.1 %



Zone Work Totals

Area	Yield	Moisture
2.8 ac	221.5 bu/ac	14 %

Field Average
+ 11.3 Bu/ac